

# STA 304 Paper 1

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## Abstract

My abstract

#Introduction

## Data

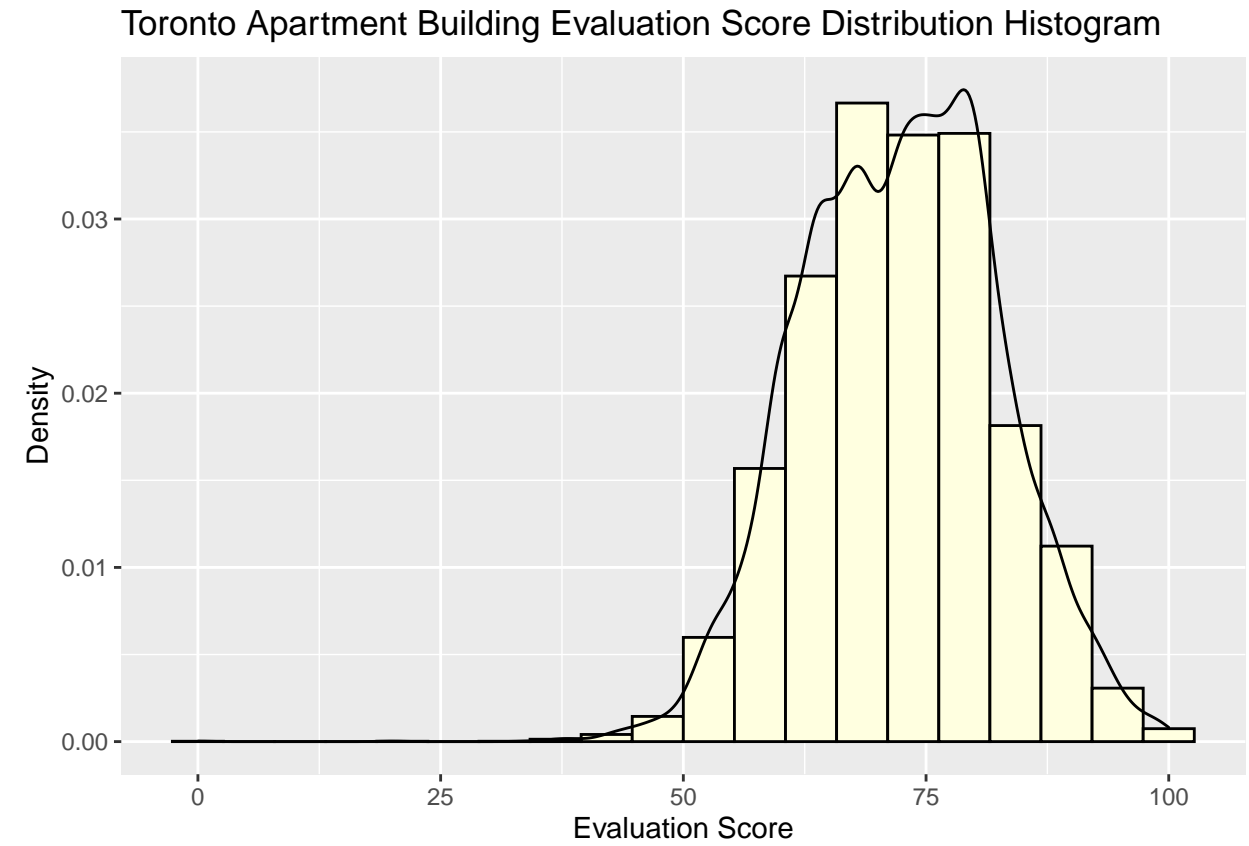
PROPERTY_TYPE	SCORE	NO_OF_AREAS_EVALUATED	ENTRANCE_LOBBY	ENTRANCE_DOORS
PRIVATE	84	18	4	
PRIVATE	87	18	4	
PRIVATE	73	18	3	
TCHC	71	18	3	
PRIVATE	67	18	3	
PRIVATE	72	17	4	

## Data Source

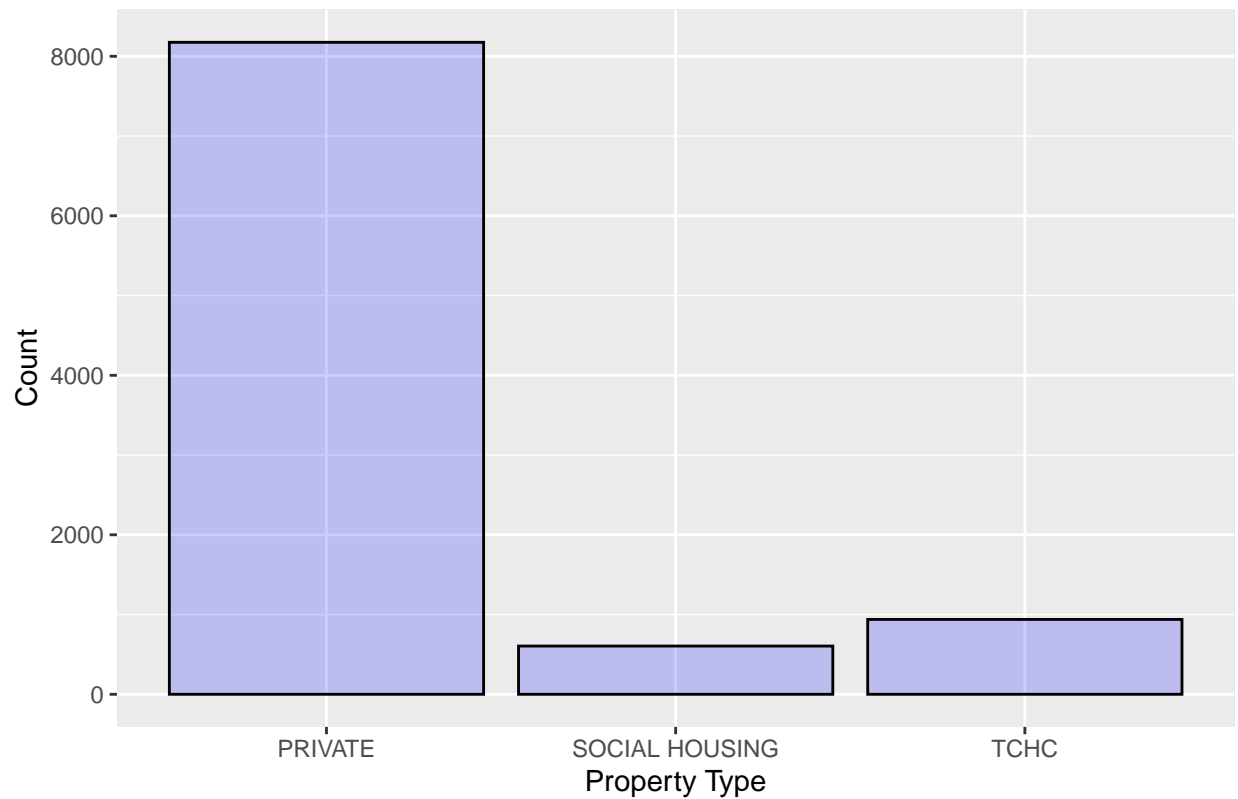
## Methodology and Data Collection

	Mean	Standard_Deviation
SCORE	72.3500360119354	10.0612099580959
NO_OF_AREAS_EVALUATED	17.1614363617656	1.66355391952787

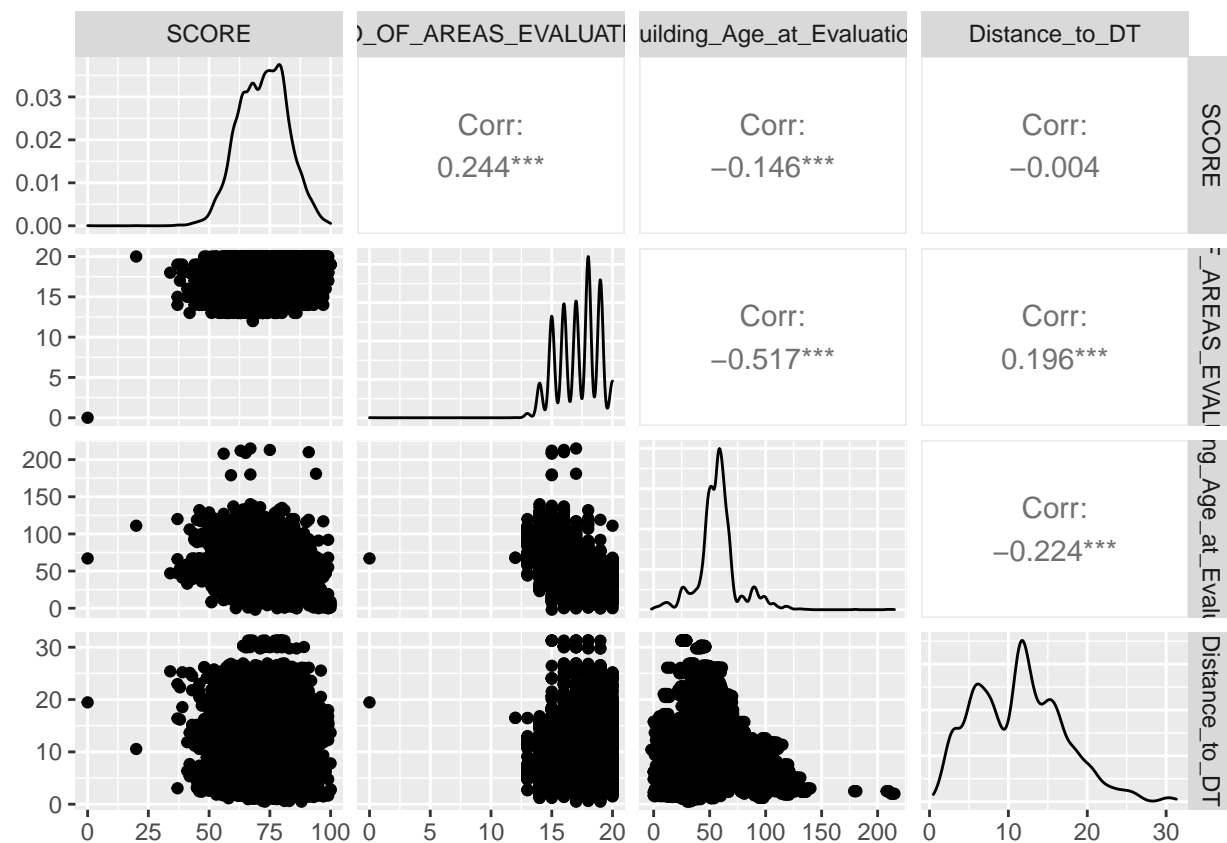
## Data Characteristic



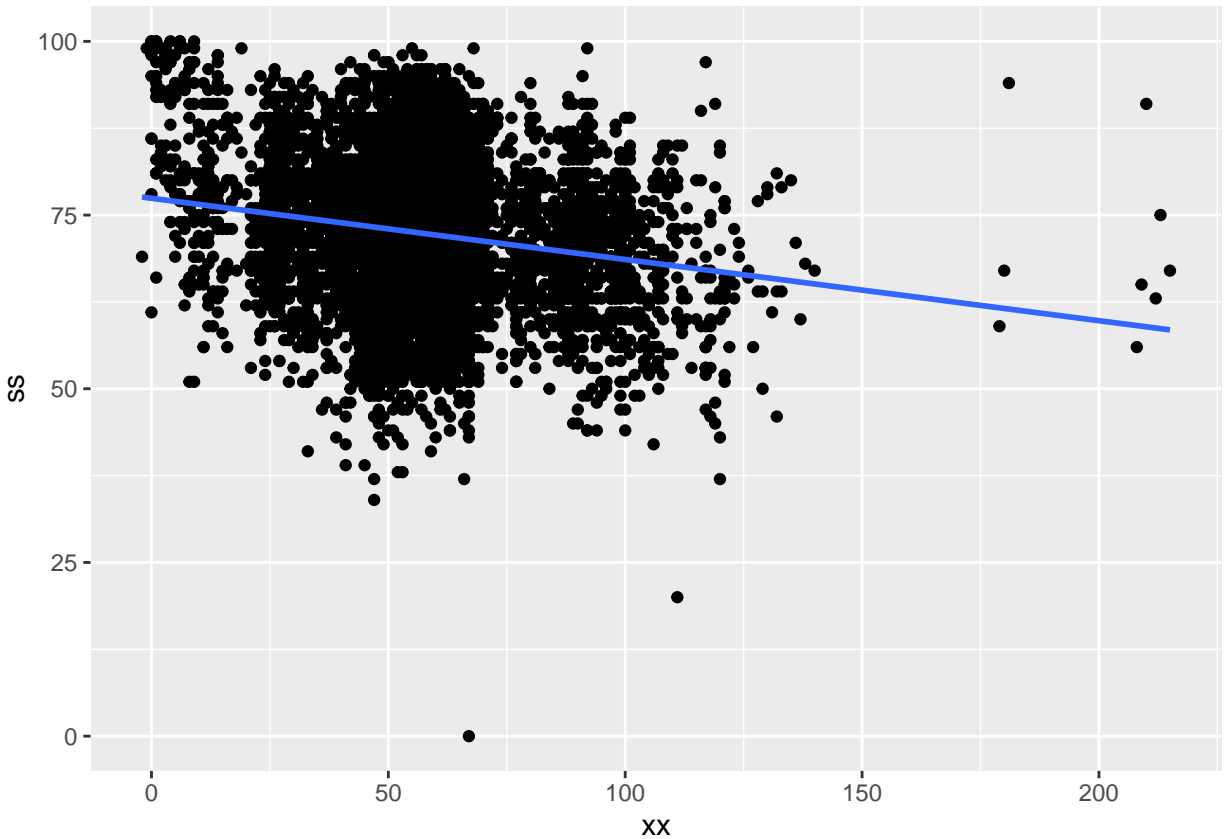
## Overview of Different Property Types under Evaluation



```
## [1] "PROPERTY_TYPE"          "SCORE"
## [3] "NO_OF_AREAS_EVALUATED"  "ENTRANCE_LOBBY"
## [5] "ENTRANCE_DOORS_WINDOWS" "SECURITY"
## [7] "STAIRWELLS"            "LAUNDRY_ROOMS"
## [9] "INTERNAL_GUARDS_HANDRAILS" "GARBAGE_CHUTE_ROOMS"
## [11] "GARBAGE_BIN_STORAGE_AREA" "ELEVATORS"
## [13] "STORAGE_AREAS_LOCKERS"   "INTERIOR_WALL_CEILING_FLOOR"
## [15] "INTERIOR_LIGHTING_LEVELS" "GRAFFITI"
## [17] "EXTERIOR_CLADDING"       "EXTERIOR_GROUNDS"
## [19] "EXTERIOR_WALKWAYS"       "BALCONY_GUARDS"
## [21] "WATER_PEN_EXT_BLDG_ELEMENTS" "PARKING_AREA"
## [23] "OTHER_FACILITIES"       "Building_Age_at_Evaluation"
## [25] "Distance_to_DT"
```



```
## 'geom_smooth()' using formula 'y ~ x'
```



Column Description \_id Unique row identifier for Open Data database

RSN This is the ID number for a building. The registration ID can be used to identify information pertaining to buildings in different RentSafeTO Open Data Sets.

YEAR\_REGISTERED This is the year that the building first registered with RentSafeTO.

YEAR\_EVALUATED

This represents the year of the building evaluation scores.

YEAR\_BUILT

This is the year that the building was built in. Information is provided by the Building Owners/Managers.

PROPERTY\_TYPE

This field informs users of whether a building is owed privately, by Toronto Community Housing Corporation (TCHC) or another assisted, social or supportive housing provider.

WARD

This is the ward that the building is located in. All data is provided based on the 25 ward system.

WARDNAME

This is the name of the ward

SITE\_ADDRESS

This is the building address.

CONFIRMED\_STOREYS

This is the number of storeys in a building.

CONFIRMED\_UNITS This is the number of units in a building.

EVALUATION\_COMPLETED\_ON This is the date the evaluation was conducted on.

## SCORE

This is the overall score of the building. The score is the sum total of each item that was evaluated. The formula to calculate scores is as follows: sum of all assigned scores during the evaluation / (number of unique items reviewed \*5)

## RESULTS\_OF\_SCORE

The score is used to determine whether an audit (which is a comprehensive examination of the building) takes place or whether another evaluation will be conducted in one, two or three years.

## NO\_OF\_AREAS\_EVALUATED

This is the number of items that were evaluated during a single evaluation.

## ENTRANCE\_LOBBY

This represents the condition of the entrance and/or lobby in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## ENTRANCE\_DOORS\_WINDOWS

This represents the condition of the entrance doors and windows in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## SECURITY

This represents the condition of the security system(s) in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## STAIRWELLS

This represents the condition of the stairwells in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## LAUNDRY\_ROOMS

This represents the condition of the laundry room(s) in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## INTERNAL\_GUARDS\_HANDRAILS

This represents the condition of the internal guards and handrails in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

**GARBAGE\_CHUTE\_ROOMS** This represents the condition of the garbage/chute rooms in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## GARBAGE\_BIN\_STORAGE\_AREA

This represents the condition of the garbage bin storage room or outdoor enclosure area. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## ELEVATORS

This represents the condition of the elevator(s) in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## STORAGE\_AREAS\_LOCKERS

This represents the condition of the storage areas/lockers in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

**INTERIOR\_WALL\_CEILING\_FLOOR** This represents the condition of internal walls, ceilings and floors in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## INTERIOR\_LIGHTING\_LEVELS

This represents the condition of internal lighting levels in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

## GRAFFITI

This score represents the severity of graffiti in a building. Scores range from 1 to 5, with 1 being a significant amount of graffiti and 5 being no graffiti.

#### EXTERIOR\_CLADDING

This represents the condition of the exterior cladding/bricks/paint, flashing and drain pipes on a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### EXTERIOR\_GROUNDS

This represents the condition of the exterior grounds of a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### EXTERIOR\_WALKWAYS

This represents the condition of the exterior walkways of a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### BALCONY\_GUARDS

This represents the condition of the balcony guards on a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

**WATER\_PEN\_EXT\_BLDG\_ELEMENTS** This represents the condition of water penetration of external elements of a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### PARKING\_AREA

This represents the condition of the parking areas of a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### OTHER\_FACILITIES

This represents the condition of other facilities in a building. Scores range from 1 to 5, with 1 being the lowest and 5 being the highest.

#### GRID

This is the grid that the building is located in. A grid represents a specific administrative area for bylaw enforcement.

#### LATITUDE

The latitude associated with the building address.

#### LONGITUDE

The longitude associated with the building address.

#### X

The projected X coordinate associated with the building address. The projected coordinate system is NAD27 MTM Zone 10.

#### Y

The projected Y coordinate associated with the building address. The projected coordinate system is NAD27 MTM Zone 10.